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INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

			- No file - of - · · ·					
Applicant's or agent's file reference SC0978EG/MAW				FOR FURTHER ACTION See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)				
1	nternational application No. PCT/EP 03/06753			International filing date 25.06.2003	(day/month/year)	Priority date (day/month/year) 05.07.2002		
1	nationa 1B17/		ent Classification (IPC) or b	oth national classification and IPC				
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1.	 This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36. 							
2.	This	REP	ORT consists of a total of	of 5 sheets, including t	nis cover sheet.			
	This report is also accompanied by ANNEXES, i.e. sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).							
	Thes	•	nexes consist of a total of		ive moducacho und	der tile i Otj.		
	·=· · · ·							
3.	This	repo	rt contains indications re	lating to the following it	ems:			
	1	\boxtimes	Basis of the opinion					
	11		Priority		novelty, inventive step and industrial applicability			
	III			· -				
	IV		Lack of unity of inventi					
	٧	☒	Reasoned statement uncitations and explanations	ınder Rule 66.2(a)(ii) w ions supporting such st	ith regard to novelt atement	y, inventive step or industrial applicability;		
	VI		Certain documents cit	ed				
	VII		Certain defects in the	international applicatior	1			
	VIII		. Certain observations o	on the international appl	ication	Name of the state		
Date	Date of submission of the demand 05.02.2004				Date of completion of this report 15.12.2004			
05.0								
		exami	g address of the internation ining authority:		Authorized Officer			
	European Patent Office - Gitschiner Str. 103 D-10958 Berlin Tel. +49 30 25901 - 0 Fax: +49 30 25901 - 840			chiner Str. 103	Douglas, I Telephone No. +49	30 25901-470		

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/EP 03/06753

I. Basi	s of the	report
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Description, Pages

1. With regard to the **elements** of the international application (Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17)):

		1, 2 24-2	t, 4-9, 14, 16-18, 20-2 29					
nesia ndali tyris		3, 1	0-13, 15, 19, 23	received on 02.11.2004 with letter of 22.10.2004				
		Cla	ims, Numbers					
		11-	17, 27 (part), 28-42	as originally filed				
		1-10	0, 18-26, 27 (part)	received on 02.11.2004 with letter of 22.10.2004				
		Dra	wings, Sheets					
		1/2-	2/2	received on 02.11.2004 with letter of 22.10.2004				
:	2.	With regard to the language, all the elements marked above were available or furnished to this Authority in the language in which the international application was filed, unless otherwise indicated under this item.						
		These elements were available or furnished to this Authority in the following language: , which is:						
			the language of a tra	slation furnished for the purposes of the international search (under Rule 23.1(b)).				
			the language of publi	cation of the international application (under Rule 48.3(b)).				
			the language of a tra Rule 55.2 and/or 55.3	nslation furnished for the purposes of international preliminary examination (under).				
;	3.	Witl inte	n regard to any nucle rnational preliminary e	otide and/or amino acid sequence disclosed in the international application, the xamination was carried out on the basis of the sequence listing:				
			contained in the inter	national application in written form.				
			filed together with the	international application in computer readable form.				
			furnished subsequen	ly to this Authority in written form.				
	.,		furnished subsequen	ly to this Authority in computer readable form.				
		☐ The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.						
			The statement that the listing has been furni	e information recorded in computer readable form is identical to the written sequence shed.				
•	4.	The	amendments have re	sulted in the cancellation of:				
			the description,	pages:				
			the claims,	Nos.:				
			the drawings,	sheets:				

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INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/EP 03/06753

5.		his report has been established as if (some of) the amendments had not been made, since they have een considered to go beyond the disclosure as filed (Rule 70.2(c)).								
		(Any replacement sheet conta report.)	aining s	such amendn	ments must be referred to under item 1 and annexed to this					
6.	Add	dditional observations, if necessary:								
V.	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement									
1,	Stat	tement			en de la companya de					
		relty (N)			4-11,13-16,18-20,24-31,33-36,38-42 1-3,12,17,21-23,32,37					
	Inve	entive step (IS)	Yes: No:	Claims Claims	9-11,29-31 1-8,12-28,32-42					
	Indu	ustrial applicability (IA)	Yes: No:	Claims Claims	1-42					
2.	Cita	tions and explanations								
	see	separate sheet								



International application No. PCT/EP 03/06753

Re Item V

Reasoned statement with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Reference is made to the following document:

D1: US-A-6 118 811 (CHEN RICKY Y ET AL) 12 September 2000 (2000-09-12)

2. The present application does not meet the criteria of Article 33(1) PCT, because the subject-matter of claims 1 to 3, 12, 17, 21 to 23, 32, 37 is not new in the sense of Article 33(2) PCT.

The document D1 (fig 1; fig. 2; fig. 4; col. 5, line 60 to col. 6 line 54) discloses (the references in parentheses applying to this document):

A method of gain calibration (col. 6 lines 45 to 48) for a transceiver having a transmitter unit and a receiver unit and including two feed back coupling paths from the transmitter unit to the receiver unit, the method comprising the steps of: setting a reference signal level of a feedback signal from the transmitter unit by adjusting characteristics of the transmitter unit in response to the measured signal level (col. 5, line 60 to col. 6 line 8);

measuring by a measurement unit, a measurement reference value associated with the reference signal level when sent via a first feed back coupling path (col. 5 line 60 to col. 6, line 3);

measuring, by a measurement unit, a signal level transmit on a second feed back coupling path from the transmitter unit via a receiver path (col. 6 lines 21 to 27); changing a gain parameter of a transceiver unit of the transceiver by a gain step (col. 6 lines 45 to 48); and

measuring, by the measurement unit a gain adjusted feedback signal level of the second feedback coupling path (col. 6 lines 45 to 48); the method characterised by the steps of:

determining an effect of the gain step on the feedback signal level relative to said measurement reference value (col. 6 lines 45 to 48); and calibrating the gain step according to said relative effect of the gain step on the feedback signal (col. 6 lines 45 to 48).

2.2 The same objection applies to independent claim 21, which is the corresponding



claim in another category.

- 2.3 D1 (col. 6 lines 45 to 48) discloses the calibration of the receiver gain as a function of AGC setting using a reference signal from the transmitter.
 - The subject-matter of claim 12 is therefore not considered to be new.
- 2.4 The same objection applies to claim 32, which is the corresponding claim in another category.
- The additional features of claims 2, 3, 17, 22, 23, 37 are also known from D1. Therefore these claims do not meet the requirements of Articles 33(2) PCT with respect to novelty.
- 3. The present application does not meet the requirements of Article 33(3) PCT, because the subject matter of claims 4 to 8, 13 to 16, 18 to 20, 24 to 28, 33 to 36, 38 to 42 does not involve an inventive step.
- Measuring the change in source signal level necessary to return to the desired 3.1 output signal level after a change in gain is merely one of several straightforward possibilities from which the skilled person would select, in accordance with circumstances, without the exercise of inventive skill, in order to solve the problem posed.
 - Therefore the subject matter of claims 4, 5, 6, 24, 25, 26 cannot be regarded as inventive.
- 3.2 The present application does not meet the requirements of Article 33(3) PCT, because the subject matter of claims 7, 8, 13 to 16, 18 to 20, 27, 28, 33 to 36, 38 to 42 does not involve an inventive step, because these claims concern features known to the person skilled in the art, such that no inventive merit can be attributed thereto.
- The combination of the features contained in claim 9, 10 or 11, 29, 30 or 31 is nei-4. ther known from, nor rendered obvious by, the available prior art.



Internation No PCT/EP 03/06753

A. CLASSIFIC ATION OF SUBJECT MATTER IPC 7 H04B17/00 H04B1/38

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols) IPC 7 - H04B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

	Citation of document, with indication, where appropriate, of the	ne relevant passages	Relevant to claim No.
х	US 6 118 811 A (CHEN RICKY Y 12 September 2000 (2000-09-12) figure 1 figure 2 figure 4 column 1, line 6 - line 8 column 5, line 30 -column 6, l	1-8, 12-28, 32-42	
·		-/	
X Furt	her documents are listed in the continuation of box C.	Patent family members are listed	In annex.
•	ategories of cited documents : ent defining the general state of the art which is not	"T" later document published after the into or priority date and not in conflict with cited to understand the principle or the	the application but
consider of the control of the contr	dered to be of particular relevance document but published on or after the international date ent which may throw doubts on priority claim(s) or is cited to establish the publication date of another n or other special reason (as specified) ent referring to an oral disclosure, use, exhibition or means ent published prior to the international filing date but han the priority date claimed	"X" document of particular relevance; the cannot be considered novel or cannot involve an inventive step when the dc "Y" document of particular relevance; the cannot be considered to involve an in document is combined with one or ments, such combination being obvio in the art. "&" document member of the same patent	claimed invention t be considered to comment is taken alone claimed invention iventive step when the ore other such docu- us to a person skilled
consider consider filling consider which citation cours other "P" docum later to be a consider to cours of the cours of th	document but published on or after the International late ent which may throw doubts on priority claim(s) or is cited to establish the publication date of another n or other special reason (as specified) ent referring to an oral disclosure, use, exhibition or means ent published prior to the International filing date but	invention "X" document of particular relevance; the cannot be considered novel or cannot involve an inventive step when the description of particular relevance; the cannot be considered to involve an indocument is combined with one or ments, such combination being obvious in the art.	claimed invention t be considered to cument is taken alone claimed invention ventive step when the ore other such docu- us to a person skilled family



Internation No
PCT/EP 03/06753

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C.(Continu	ation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category °	Citation of document, with indication, where appropriate, of the relevant passages		Relevant to claim No.
A	JARWALA M ET AL: "END-TO-END TEST STRAGEGY FOR WIRELESS SYSTEMS" PROCEEDINGS OF THE INTERNATIONAL TEST CONFERENCE (ITC). WASHINGTON, OCT. 21 - 25, 1995, NEW YORK, IEEE, US, 21 October 1995 (1995-10-21), pages 940-946, XP000552900 ISBN: 0-7803-2992-9 figure 2 page 3, paragraph 9 -page 5, paragraph 2		1-42
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Internation No
PCT/EP 03/06753

P cite	atent document d in search report		Publication date		Patent family member(s)	Publication date	
US	6118811	Α	12-09-2000	NONE			
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